

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 3, 6, 9, 19-21, 25 and 26 and CANCEL claims 2, 8, 23 and 24 without prejudice or disclaimer and ADD claims 30-33 in accordance with the foregoing:

1. **(Currently Amended)** A method of opening a tray of an optical disc changer that includes a plurality of disc mounting recesses, on each of which a disc may be loaded, the method comprising:

searching for two successive, empty disc mounting recesses if a tray open command to mount two discs simultaneously is applied;

selecting the two successive, empty disc mounting recesses to be exposed when empty disc mounting recesses are found;

moving the two successive, empty disc mounting recesses to an exposure position so that discs can be simultaneously mounted on the recesses when the tray is opened if-a the tray open command to mount two discs simultaneously is input by a user; and
opening the tray.

2. **(Cancelled)**

3. **(Currently Amended)** The method of claim 2~~1~~, further comprising selecting two successive disc mounting recesses, which are not both empty, to be exposed if two successive, empty disc mounting recesses are not found.

4. **(Previously Presented)** A method of reproducing data on discs in an optical disc changer which is suitable for a tray open mode that enables two discs to be mounted simultaneously, the method comprising:

determining whether discs are mounted on pre-selected successive, empty disc

mounting recesses;

reproducing a first disc having higher priority when a condition in which discs are mounted on the pre-selected successive, empty disc mounting recesses is determined to be in effect; and

reproducing a second disc when the reproduction of the first disc is completed.

5. **(Previously Presented)** The method of claim 4, wherein if only one of the pre-selected successive, empty disc mounting recesses has a disc mounted thereon, the mounted disc only is reproduced.

6. **(Currently Amended)** An optical disc changer tray opening method for multiple discs, comprising:

inputting a tray open command to initiate an opening of a tray of the disc changer, the tray including multiple disc mounting recesses;

determining whether the tray open command initiates a multiple disc mounting mode; and

searching for multiple successive, empty disc mounting recesses if the tray open command initiates the multiple disc mounting mode;

selecting the multiple successive, empty disc mounting recesses to be exposed when empty disc mounting recesses are found; and

opening the tray to expose the multiple successive, empty disc mounting recesses if the tray open command initiates the multiple disc mounting mode.

7. **(Previously Presented)** The method according to claim 6, wherein the opening comprises rotating the tray to move the multiple successive, empty disc mounting recesses to an exposure position.

8. **(Cancelled)**

9. **(Currently Amended)** The method according to claim-8 7, wherein, when the multiple successive, empty disc mounting recesses are found, the method further comprises:

~~selecting the multiple successive, empty disc mounting recesses to be exposed; and~~

recording numbers of the selected multiple successive, empty disc mounting recesses.

10. **(Previously Presented)** The method according to claim 9, wherein the method further comprises moving the selected multiple successive, empty disc mounting recesses to be exposed to a loading position.

11. **(Previously Presented)** The method according to claim 10, wherein the moving comprises rotating a roulette wheel, in which the disc mounting recesses are defined, so that a center between the selected multiple successive, empty disc mounting recesses to be exposed is located at a center portion of an area to be exposed.

12. **(Previously Presented)** The method according to claim 11, further comprising:
detecting numbers of the disc mounting recesses during the rotating of the roulette; and
determining an amount of rotation that has occurred based on the detection of the numbers of the disc mounting recesses.

13. **(Previously Presented)** The method according to claim 6, wherein if the multiple successive, empty disc mounting recesses are not found, but two successive disc mounting recesses to be exposed are found, the method further comprises:
selecting the two successive disc mounting recesses to be exposed; and
recording numbers of the recesses.

14. **(Previously Presented)** The method according to claim 6, wherein the multiple discs include first and second discs and the multiple disc mounting recesses include first and second disc mounting recesses in a roulette that are detected by the optical disc changer and wherein the method further comprises:

detecting a condition in which the second disc is mounted on the disc mounting recess that is detected earlier during a rotation of the roulette; and

detecting a condition in which the first disc is mounted on the disc mounting recess that is detected later than the earlier detected disc mounting recess.

15. **(Previously Presented)** An optical disc changer, comprising:

a rotatable roulette having a plurality of disc mounting recesses;
a detection sensor to recognize the disc mounting recesses and determines whether a disc is mounted on each of them; and
a microprocessor to control the roulette motor according to tray open/close commands inputted by a user, wherein when the user inputs a multiple disc mounting command, the microprocessor responsively controls the roulette motor based on information received from the detection sensor so that multiple successive, empty disc mounting recesses are moved to loading/unloading positions.

16. **(Previously Presented)** The changer according to claim 15, wherein the detection sensor recognizes the disc mounting recesses that pass by the sensor when the roulette rotates, and determines whether discs are mounted on the corresponding disc mounting recesses.

17. **(Previously Presented)** The changer according to claim 16, wherein results of the recognition and detection of the detection sensor is provided to the microprocessor.

18. **(Previously Presented)** A method of reproducing data on discs in an optical disc changer in which multiple discs are mounted on a roulette wheel of the changer, priority is established among the disks, and a multiple disc mounting mode has been initiated, the method comprising:

determining whether the discs are mounted on successive, empty disc mounting recesses which are selected when the multiple disc mounting mode has been initiated;

reproducing a first disc having high priority, if discs are mounted on the selected successive, empty disc mounting recesses; and

automatically reproducing a second high priority disc when the reproduction of the first disc is completed, wherein if one of the two successive, empty disc mounting recesses does not have a disc mounted thereon then only the mounted disc is reproduced.

19. **(Currently Amended)** An optical disc changer tray opening method, comprising:
inputting a tray open command to initiate an opening of a tray of the disc changer, the tray including multiple disc mounting recesses;

determining whether the tray open command initiates a multiple disc mounting mode or a single disc mounting mode;

searching for two successive, empty disc mounting recesses if the tray open command initiates the multiple disc mounting mode;

selecting the two successive, empty disc mounting recesses to be exposed when empty disc mounting recesses are found;

opening the tray to provide access to the two successive, empty disc mounting recesses;
and

exposing ~~multiple~~ the two successive, empty disc mounting recesses if the tray open command initiates the multiple disc mounting mode or exposing one multiple disc mounting recess if the tray open command initiates a single disc mounting mode.

20. **(Currently Amended)** An optical disc changer tray opening method, comprising:
inputting a tray open command to initiate an opening of a tray of the disc changer, the tray including multiple disc mounting recesses;

determining whether the tray open command initiates a multiple disc mounting mode or a single disc mounting mode; ~~and~~

searching for two successive, empty disc mounting recesses if the tray open command initiates the multiple disc mounting mode;

selecting the two successive, empty disc mounting recesses to be exposed when empty disc mounting recesses are found; and

opening the tray to expose the two ~~multiple~~ successive, empty disc mounting recesses if the command initiates the multiple disc mounting mode or to expose one multiple disc mounting recess if the tray open command initiates ~~a~~ the single disc mounting mode.

21. **(Currently Amended)** An optical disc changer tray opening method, the method comprising:

selecting a disc mounting mode selectable between a multiple disc mounting mode and a single disc mounting mode;

inputting a tray open command to initiate an opening of a tray of a disc changer, the tray including multiple disc mounting recesses;

determining whether, on the input of the tray open command, the selected disc mounting

mode initiates the multiple disc mounting mode to expose multiple successive, empty disc mounting recesses or the single disc mounting mode; and

searching for the multiple successive, empty disc mounting recesses if the tray open command initiates the multiple disc mounting mode;

selecting the multiple successive, empty disc mounting recesses to be exposed when empty disc mounting recesses are found; and

opening the tray according to the determining the selected disc mounting mode.

22. **(Previously Presented)** The method according to claim 21, wherein the selecting the disc mounting mode comprises receiving a user selection choosing either the multiple disc mounting mode or the single disc mounting mode.

23. **(Cancelled)**

24. **(Cancelled)**

25. **(Currently Amended)** The method according to claim-24 22, wherein if only one empty disc mounting recess is found, further comprising:

selecting the one empty disc mounting recess and at least one adjacent disc mounting recess; and

exposing the one empty disc mounting recess and the at least one adjacent disc mounting recess.

26. **(Currently Amended)** The method according to claim-24 22, wherein if no empty disc mounting recesses are found, further comprising:

selecting at least two successive disc mounting recesses; and

exposing the at least two successive disc mounting recesses.

27. **(Previously Presented)** The method according to claim 21, further comprising, when it is determined that the disc mounting mode is the single disc mounting mode, searching for one empty disc mounting recess.

28. **(Previously Presented)** The method according to claim 27, further comprising:
selecting the one empty disc mounting recess; and
exposing the one empty disc mounting recess.

29. **(Previously Presented)** The method according to claim 27, wherein if no empty disc mounting recess is found, further comprising:
selecting a disc mounting recess; and
exposing the disc mounting recess.

30. **(New)** The method according to claim 3, wherein the searching for the two successive, empty disc mounting recesses and the selecting of the two successive, empty disc mounting recesses and the selecting of the two successive disc mounting recesses, which are not empty, occur before the opening the tray.

31. **(New)** The method according to claim 19, wherein the inputting of the tray open command, and the determining whether the tray open command initiates a multiple disc mounting mode or a single disc mounting mode, occur before the opening the tray.

32. **(New)** The method according to claim 20, wherein the searching for the two successive, empty disc mounting recesses, the selecting of the two successive, empty disc mounting recesses and the selecting of the two successive disc mounting recesses, which are not empty, occur before the opening the tray.

33. **(New)** The method according to claim 21, wherein the inputting of the tray open command to initiate an opening of the tray and the determining whether, on the input of the tray open command, the selected disc mounting mode initiates a multiple disc mounting mode or a single disc mounting mode, occur before the opening the tray.